

70 58 75 60 70 58 62 70 58

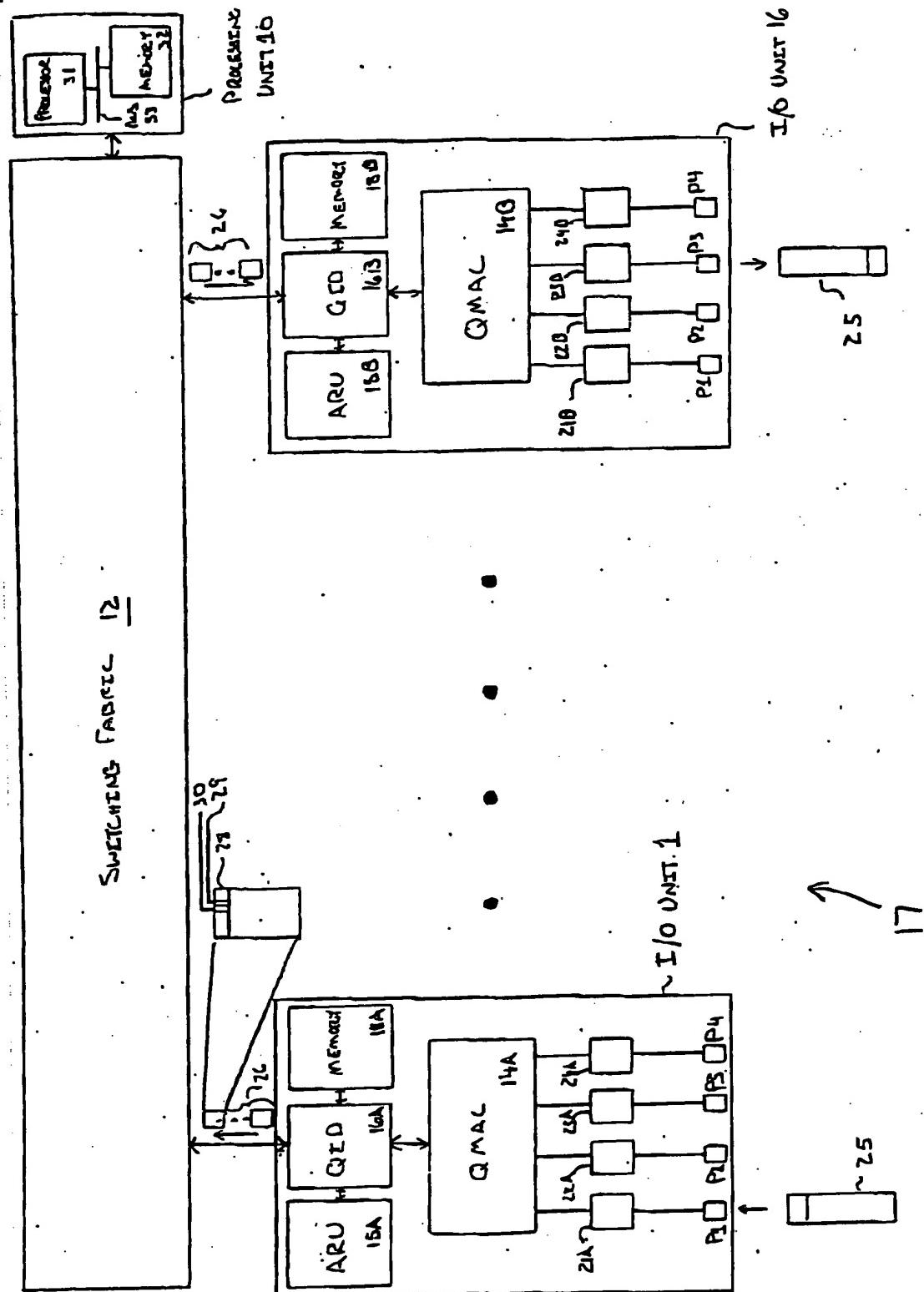


FIG. 1

PROTOTYPING SYSTEM

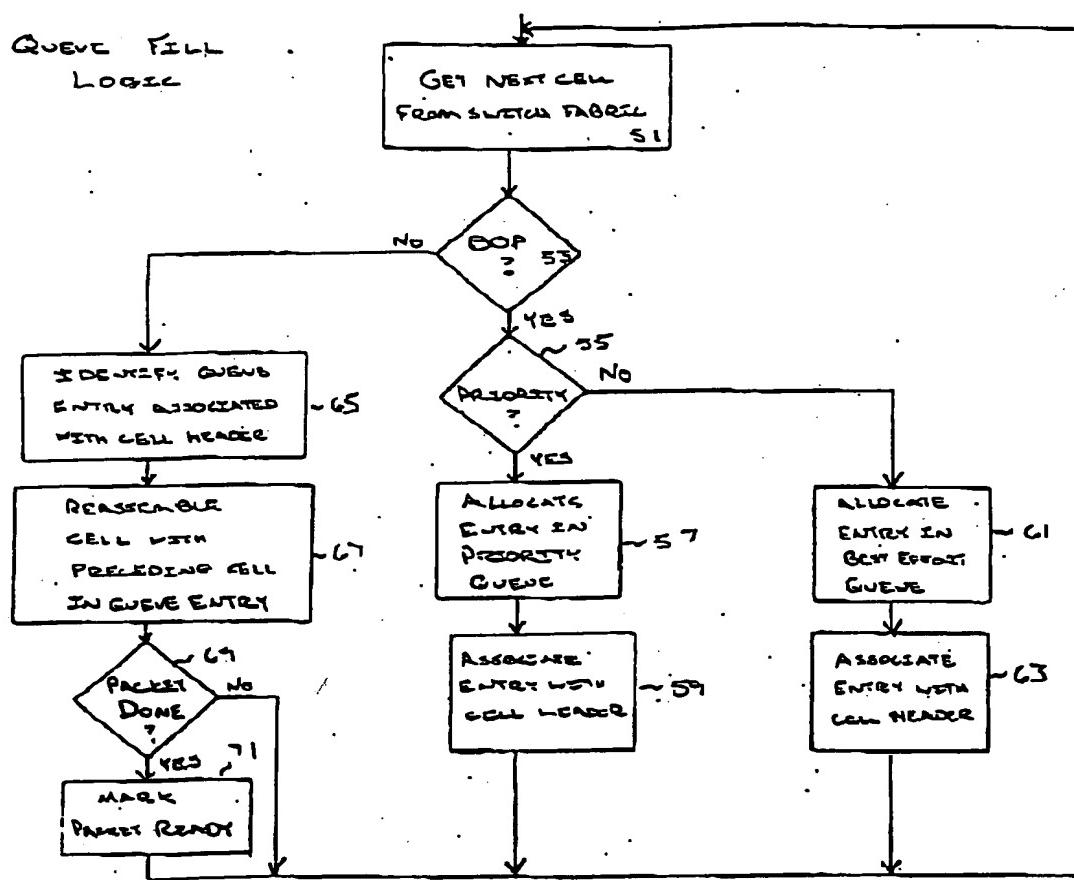


FIG. 2A

QUEUE DRAIN LOGIC

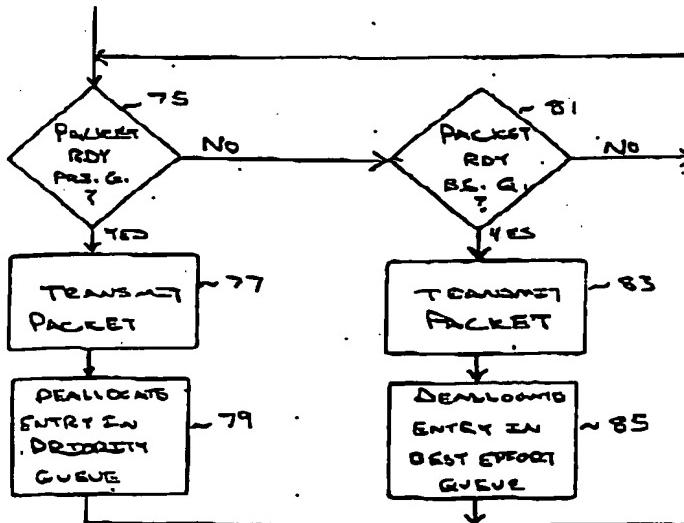
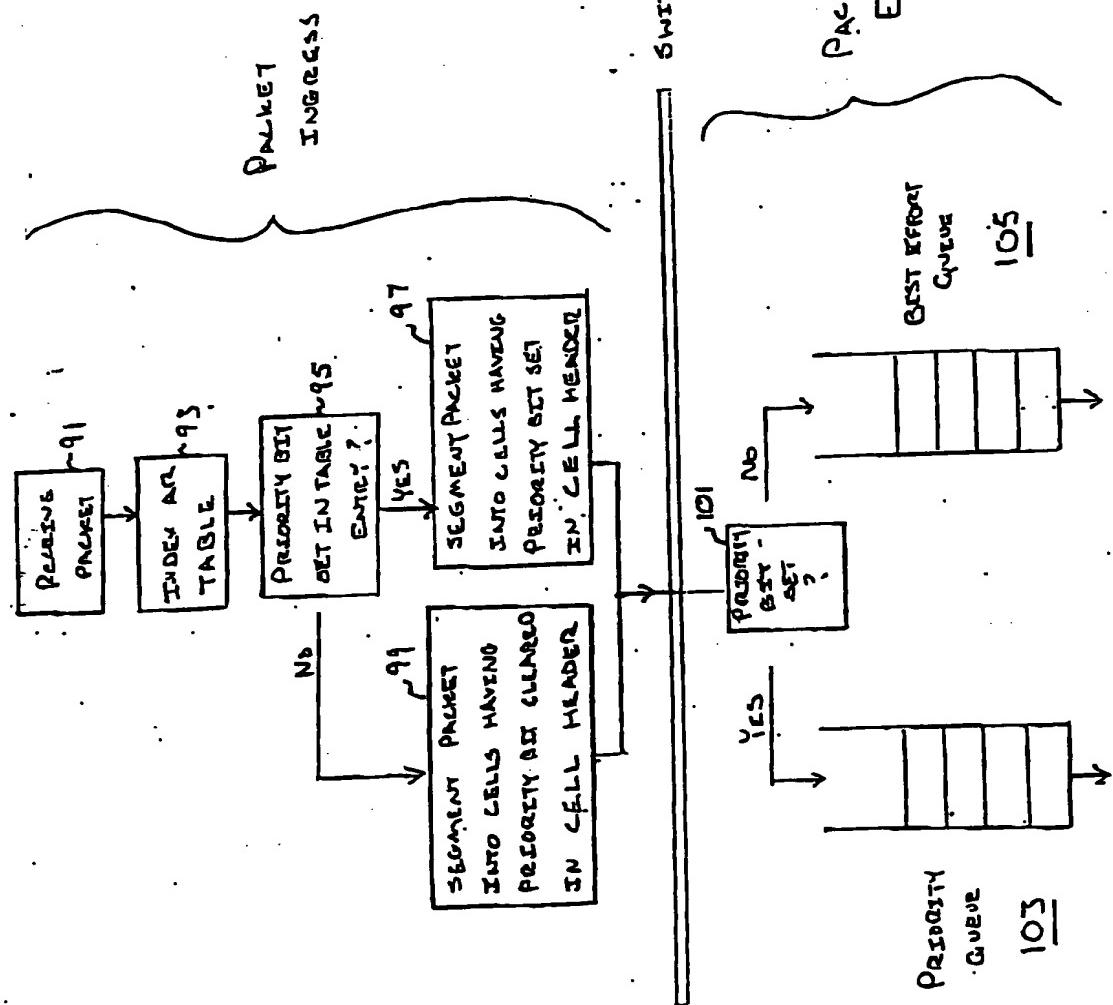
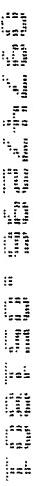


FIG. 2B



10010000 00000000 00000000

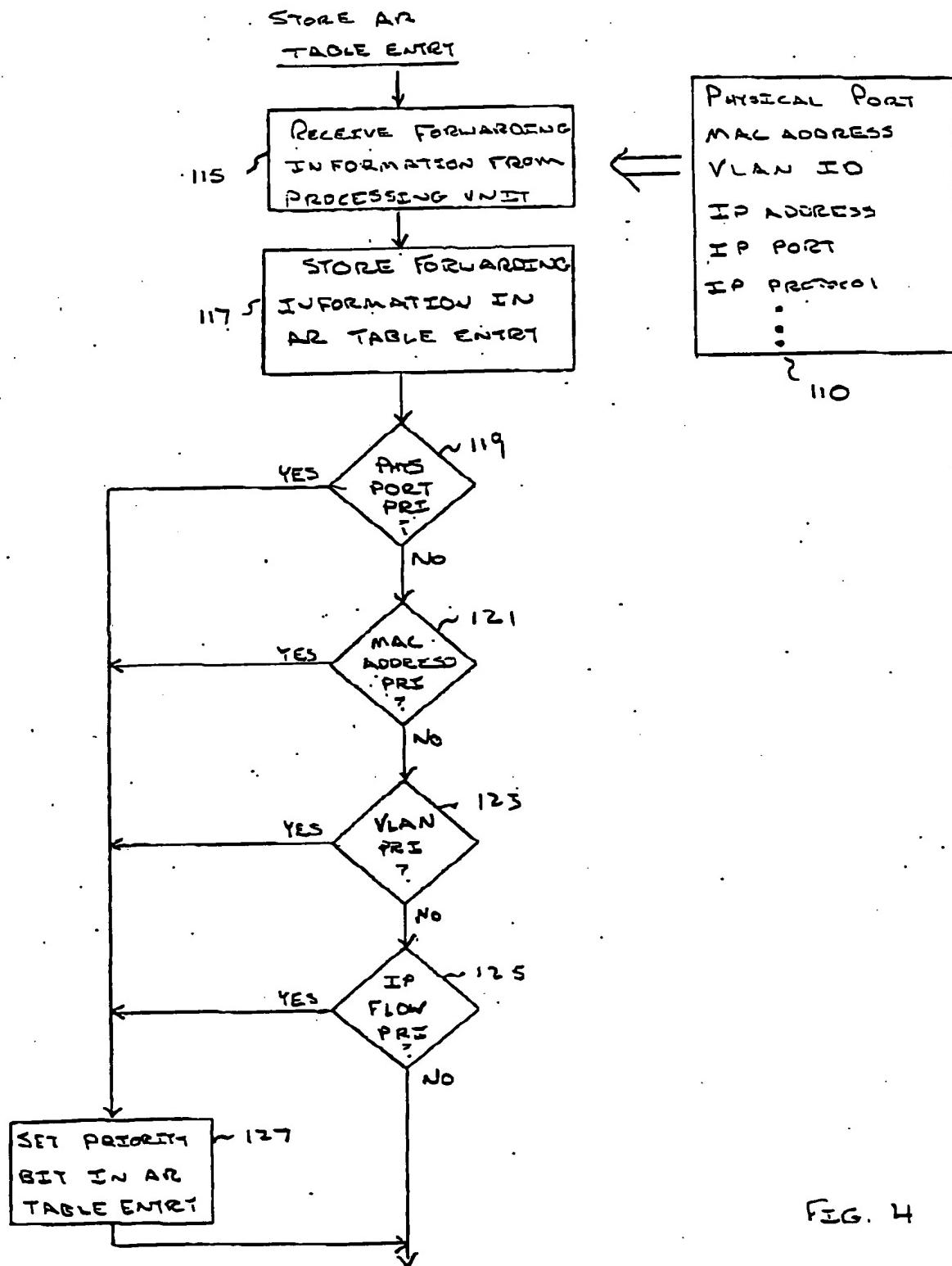


FIG. 4

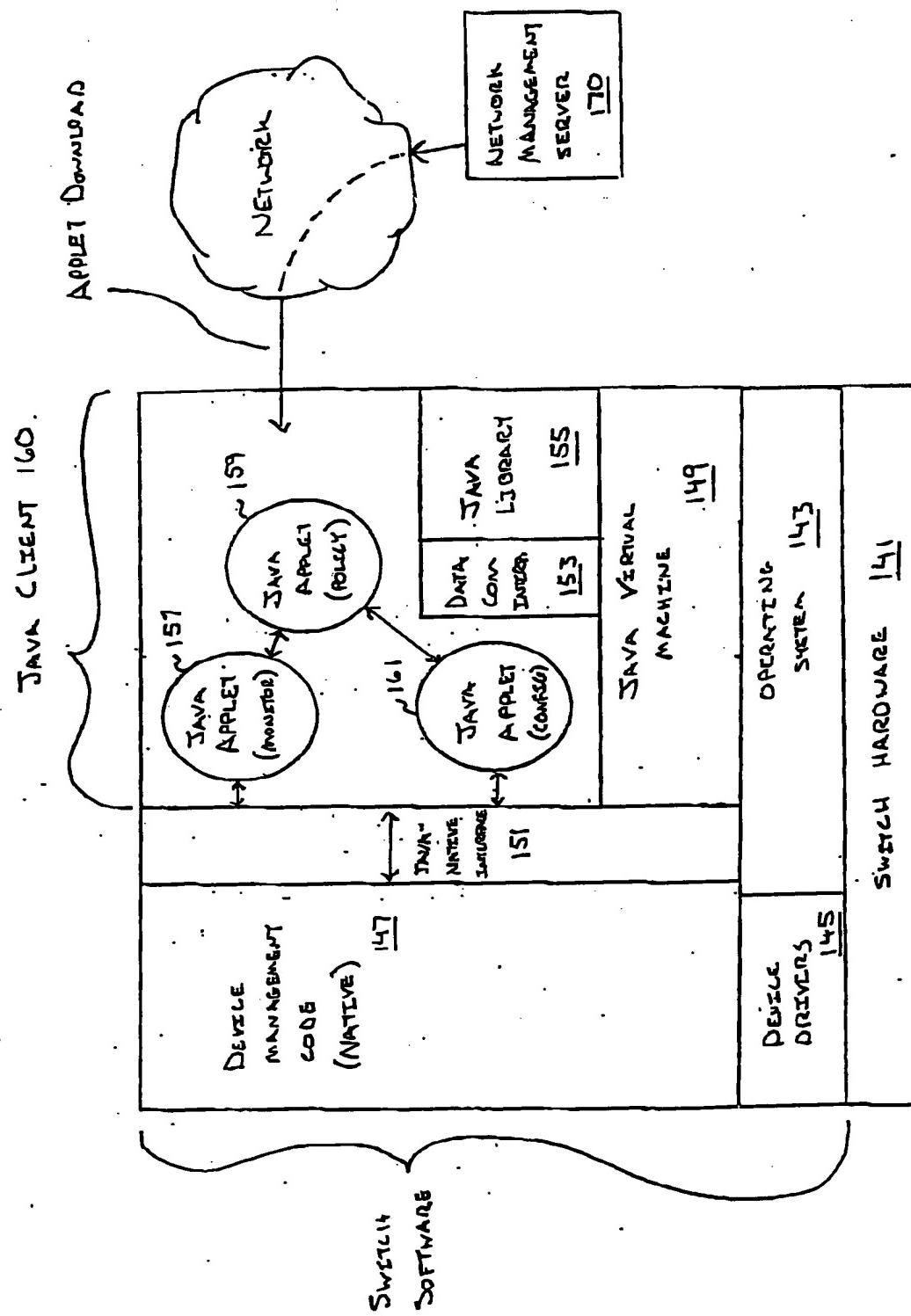


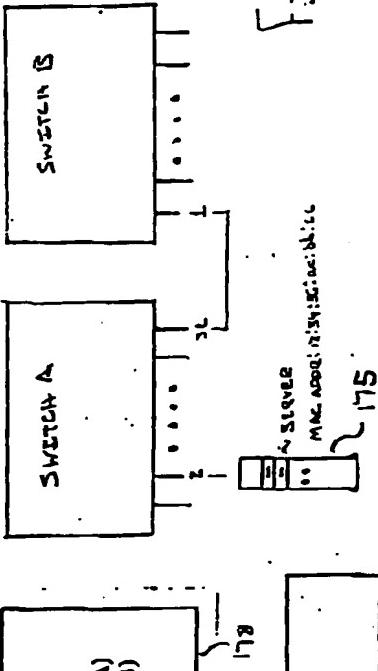
Fig. 5

↑ 17

```

MONITOR:
FOREVER
{
    READ_DEST_MAC_UTIL% (PORT1, MAC ADDR A)
    READ_DEST_MAC_UTIL% (PORT1, MAC ADDR B)
    DELAY 10MS
}

```



```

POLICY ENFORCEMENT:
A%: LINE UTILIZATION % MAC ADDR A
B%: LINE UTILIZATION % MAC ADDR B
QA_S: QUEUE ASSIGNMENT OF SERVER MAC ADDR TRAFFIC
QA_A: QUEUE ASSIGNMENT OF MAC ADDR A TRAFFIC
QA_B: QUEUE ASSIGNMENT OF MAC ADDR B TRAFFIC

```

DETA = 5%

QA_S = QA_A = QA_B = PRI_Q

FOREVER

GET A%, B% FROM MONITOR

181 IF (QA_A == PRI_Q AND QA_B == PRI_Q) AND
 ((A%+B%) > 80%)
 QA_A = BE_Q

183 IF (QA_A == BE_Q AND QA_B == PRI_Q) AND
 ((A%+B%) < (80% - DELTA))
 QA_A = PRI_Q

185 IF (QA_A == B_E_Q AND QA_B == PRI_Q) AND
 (B% > 80%)
 QA_B = BE_Q

187 IF (QA_B == B_E_Q) AND
 (B% < (80% - DELTA))
 QA_B = PRI_Q
 DELAY 5MS

CONFIGURATION:

```

QA_A: QUEUE ASSIGNMENT OF MAC ADDR A TRAFFIC
QA_B: QUEUE ASSIGNMENT OF MAC ADDR B TRAFFIC
LAST_QA_A: QA_A HISTORY
LAST_QA_B: QA_B HISTORY
LAST_QA_A = LAST_QA_B = PRI_Q

```

FOREVER

```

    {
        GET_QA_A, QA_B FROM POLICY ENFORCEMENT
        IF (QA_A != LAST_QA_A)
        {
            MOVE_VIRTUAL_QUEUE (PORT1, MAC ADDR A, QA_A)
            LAST_QA_A = QA_A
        }
        IF (QA_A != LAST_QA_A)
        {
            MOVE_VIRTUAL_QUEUE (PORT1, MAC ADDR A, QA_A)
            LAST_QA_A = QA_A
        }
        DELAY 2.5MS
    }

```

FIG. 6.

180

179